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PAPER

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. CHAN3209/EM 5080 10/628,511 07/29/2003 Chin-Chen Chang 02/22/2007 **EXAMINER** BACON & THOMAS, PLLC PATEL, KANJIBHAI B **625 SLATERS LANE** FOURTH FLOOR ART UNIT PAPER NUMBER ALEXANDRIA, VA 22314 2624 DELIVERY MODE SHORTENED STATUTORY PERIOD OF RESPONSE MAIL DATE

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

02/22/2007

		Application No.	Applicant(s)
Office Action Summary		10/628,511	CHANG ET AL.
		Examiner	Art Unit
		Kanji Patel	2624
Period f	The MAILING DATE of this communication apports.	pears on the cover sheet with the c	orrespondence address
WHIO - Exte afte - If No - Failt Any	HORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Do ensions of time may be available under the provisions of 37 CFR 1.1 of SIX (6) MONTHS from the mailing date of this communication. Of period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
1)[🛛	Responsive to communication(s) filed on 12 Ja	anuary 2007	•
2a)□	This action is FINAL . 2b)⊠ This action is non-final.		
3)	, —		
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.		
Disposit	ion of Claims		
4)⊠	☑ Claim(s) <u>1-14</u> is/are pending in the application.		
<i>,</i> —	4a) Of the above claim(s) is/are withdray		
5)[
6)⊠	Claim(s) 1 is/are rejected.		
7)🖂	Claim(s) 2-14 is/are objected to.		
8)[Claim(s) are subject to restriction and/or	r election requirement.	
Applicat	ion Papers		
9)	The specification is objected to by the Examine	r	
-	The drawing(s) filed on <u>29 July 2003</u> is/are: a)⊠ accepted or b) objected to by the Examiner.		
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority (under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a)⊠ All b)□ Some * c)□ None of:			
·	1.⊠ Certified copies of the priority documents	s have been received.	
	2. Certified copies of the priority documents have been received in Application No		
	3. Copies of the certified copies of the prior		
	application from the International Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of the certified copies not received.			
Attachmen	t(s)		
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)			
	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:			

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Response to Amendment

1. Applicant's amendment filed 1/12/07 has been entered and made of record.

Terminal Disclaimer submitted on 1/12/07 has been entered and made of record.

In response to applicant's submission of the Terminal Disclaimer to overcome the obviousness type double patenting rejection, the double patenting rejection has been withdrawn. However, there is a new ground of rejection based on reference to Chang et al. (US 7,068,843 B2) as follow:

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Chang et al. (US 7,068,843 B2).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

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As to claim 1, Chang et al. disclose a method for alignment features (column 2, lines 44-46; matching gesture features corresponds to an alignment of features) of image, comprising the steps of:

capturing an input image (column 2, lines 44-47; S101);

detrermining a closed curve formed by a binary image of the gesture image by preprocessing the gesture image (column 2, lines 48-55; S102);

drawing a curvature scale space (CSS) image of the gesture image based on the closed curve (column 2, lines 56-59; S103);

performing a convolution operation (column 3, lines 49 to column 4 line 64) with respect to the sequence of a coordinate-peak set formed by the CSS image and a predefined function F(x) (one dimensional Gauss function is a predetermined function) to designate the coordinate with maximal value of integration as a basis point for obtaining feature parameters of the gesture image (column 3, lines 3-18);

comparing each feature parameter of the gesture image with each feature parameter of a plurality of reference gesture shapes for determining a gesture shape corresponding to the gesture image (column 3, lines 3-18; column 5, lines 16-67).

Allowable Subject matter

3. Claims 2-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Other prior art cited

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4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Freeman (US 5,454,043) discloses dynamic and static hand gesture recognition through low-level image analysis.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kanji Patel whose telephone number is (571) 272-7454. The examiner can normally be reached on Monday to Thursday from 8 a.m. to 6:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lillis Eileen can be reached on (571) 272-6928 The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kanji Patel Art Unit 2624 2/19/07

KANJIBHAI PATEL
PRIMARY EXAMINER